



BADGER STATE Smoke Signals



For Radio Amateurs • By Radio Amateurs

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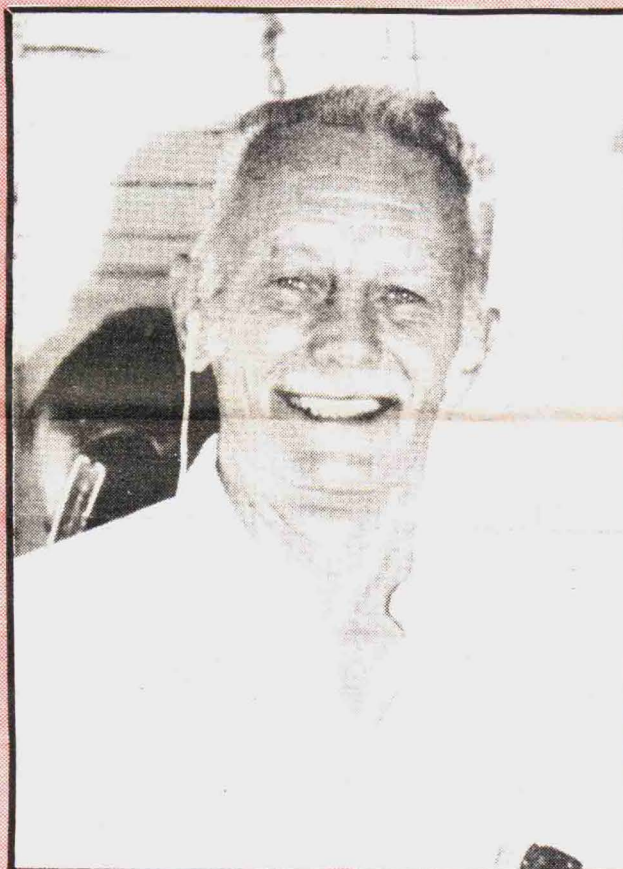
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New SEC Appointed

**FRED R. WENDT, W9ZAG, CHOSEN TO
SERVE AS NEW SECTION EMERGENCY
COORDINATOR FOR WISCONSIN**

This year commemorates the 75th anniversary since Amateur Radio Volunteers first provided emergency communications. When a terrible windstorm struck the Midwest in March of 1913, bringing tornados, electrical disturbances and severe flooding, Hams at the Ohio State University and at the University of Michigan relayed vital information with their spark-gap signals. After 70 straight hours of handling messages, dedicated but exhausted volunteers passed out from lack of sleep. Later, a rotary spark motor stopped working. Yet despite initial problems, Amateur Radio communications provided significant support.

Next, in 1914, the American Radio Relay League was formed, and soon sponsored the Amateur Radio Emergency Service, the backbone of today's Emergency Communications. The League developed levels of ARES leadership to organize emergency communication activities. An Emergency Coordinator directs at a



(Please turn to page 5)

Fred R. Wendt, W9ZAG

87-14 Update

As noted in our last issue, the FCC has accepted the late comments filed by United Parcel Service in the proposed reallocation of the 220 to 222 MHz band. The ARRL had requested the UPS comments be struck down on the grounds that, in addition to being six months late, UPS had not given all the other parties the opportunity to submit reply comments.

The UPS argument stated that they had only recently developed plans for a nationwide private land mobile system, and that any earlier announcement of the project would have been premature. The Commission, in accepting the comments, said that the filing provided new and relevant information. The FCC wanted to have as complete a record as possible prior to making a decision.

The FCC accepted reply comments to the UPS filing until March 31.

In further 220 news, the FCC has now extended the deadline for filing reply comments in the TV Answer petition (RM-6196) to May 1, 1988; since this is a Sunday, the FCC will accept comments until the close of business May 2.

(From The ARRL Letter, published by The American Radio Relay League)

Governor's Conference is April 28

The annual Governor's Conference on Emergency Preparedness will be held on Thursday, April 28, 1988, at the Olympia Resort in Oconomowoc from 8:00 a.m. to 4:00 p.m.


WC9AAG will operate from the conference all day, and will be on 3985 KHz LSB and on all two meter repeaters within range of the station at the conference. Packet will also be operated from the conference by Jim Anderson, N9AGH. A major goal of the station is to make contacts in all 72 Wisconsin counties, either by direct contact, or by relay through intermediate stations.

It is hoped that Wisconsin Governor Tommy Thompson will make several contacts with Wisconsin Radio Amateurs after he delivers his speech to the conference attendees at noon. Wisconsin Amateurs, many of whom volunteer time and equipment when needed in times of disaster or emergency, would enjoy the opportunity to exchange greetings with the Governor. Wisconsin stations should monitor 3985 or, if in the area of the conference, monitor the two-meter repeaters. And, don't forget to check in; be certain that your county is represented!

- Thanks Russ Fleming, WB9NYG

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**BADGER STATE
Smoke Signals**

For Radio Amateurs • By Radio Amateurs

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EDITORIAL MATERIAL, PHOTOGRAPHS, FEATURE ARTICLES, AND EXCHANGE PAPERS should be sent to Jim Romelfanger, address above.

DISPLAY ADS OR INQUIRIES REGARDING DISPLAY ADS should be directed to Harry Westlund, address above.

SUBSCRIPTIONS should be sent, with check or money order (do not send cash), to Jim Decker, address above.

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EDITORIAL DISCLAIMER

The opinions expressed in editorials, guest editorials, columns, articles, and letters are the opinions of the authors only, and do not, unless otherwise stated, express or imply agreement or endorsement by Badger State Smoke Signals, or any other organization.

Swapfests and other Social Events

SATURDAY, MAY 7, 1988. Tenth Annual Cedarburg, WI Swapfest. Sponsored by the Ozaukee Radio Club. Circle B Recreation Center, Intersection of Highway 60 and County I. Amateur Radio Examinations (see test point). Admission: \$2.00 advance, \$3.00 at the door. Tables: \$3.00. SASE to O.R.C. Swapfest committee, 101 East Clay St, Saukville, WI 53080.

SATURDAY MAY 14, 1988. Tri-County Hamfest (Sheboygan, Manitowoc & Calumet Ctys.) Manitowoc County Expo, Intersection of hwy 42-151 and I43 on County Hwy R. Follow signs to center. Amateur Radio Examinations given (see Test Point). Admission: \$2.00 advance, \$3.00 at the door. Tables: \$3.00. SASE to Mancorad Radio

Club, P.O. Box 204, Manitowoc, WI 54220. See last months BSSS for ad with more details and map.

SUNDAY, JUNE 19, 1988. The 11th annual Central Wisconsin Radio Amateurs Ltd. Swapfest and Family Picnic, will be held at Bukolt Park, on the Wisconsin River in Stevens Point, WI. FREE admission. Swaptables and Tailgate space: \$3.00. Amateur Radio Exams start at 9:00 a.m. (See details and map in ad on page 5.)

SATURDAY, JULY 9, 1988. Swapfest "88". American Legion Post 434, Oak Creek, WI. Sponsored by the South Milwaukee ARC. Amateur Radio Examinations given (see test point). Tickets: \$3.00. Watch BSSS for ad with more details and map from this Badger State Booster.

As a service to our readers, this section of Badger State Smoke Signals is available without charge to list your upcoming Swapfest, Hamfest, dinner, picnic, party or other event of interest to Radio Amateurs in Wisconsin and nearby areas.

Send information on your event to Kenneth A. Ebner, K9EN, 822 Wauona Trail, Portage, WI 53901. In addition, space is available at attractive rates on our advertising pages. For information on rates and requirements for our advertising pages, please contact K9ZZ or K9EN.

Club Meetings

BADGER AMATEUR RADIO SOCIETY
(W9YT - UNIVERSITY OF WISCONSIN - MADISON)
Monthly while school in session - 2nd Wednesday - 7:30 p.m. - B-314, Electrical Engineering Building.

CENTRAL WISCONSIN RADIO AMATEURS, LTD.
(STEVENS POINT)

Second Wednesday.

EAU CLAIRE AMATEUR RADIO CLUB
2nd Tuesday - 7:30 p.m. - Parks and Recreation Bldg., Oxford and 1st Streets, Eau Claire. Hams, guests welcome. Travelers welcome on wide area club repeater K9UXP, 146.31/91.

FOUR LAKES AMATEUR RADIO CLUB (MADISON WI)
First and third Tuesdays - 7:30 p.m. - Red Cross Bldg., 4860 Sheboygan Ave.

FOX CITIES AMATEUR RADIO CLUB
Third Monday - 7:00 p.m. - Roosevelt Jr. High School, 318 E. Brewster St., Appleton. Info: (414) 735-6294. Winter Banquet, January 23, 1988. Contact KA9MPP.

GREEN BAY MIKE AND KEY CLUB
Second Thursday - Red Cross Bldg., corner Danz and Deckner, Green Bay.

GREEN FOX AMATEUR RADIO CLUB
Third Monday - 7:30 p.m. - Green Lake Town Hall, int. of county hwy. K and N.

KETTLE MORAINE RADIO AMATEURS
Second Friday.

LAKE SHORE RPTR. ASSN.
4th Tuesday, Jan., Apr., Jul., & Oct., 7:30 p.m. Red Cross Bldg., 4521 Taylor Ave., Racine, WI.

MANITOWOC COUNTY RADIO AMATEURS
First Wednesday - 7:00 p.m. - City Hall, 817

Franklin St., Manitowoc.
Second Wednesday - Red Cross Building, 1816 Washington St., Manitowoc.

MENOMONEE FALLS AMATEUR RADIO CLUB
Last Tuesday - Doors open 7:30 p.m., meeting begins 8:00 p.m. - Security Savings and Loan, Menomonee Falls. Amateurs and guests welcome.

MILWAUKEE RADIO AMATEURS CLUB
Fourth Thursday - Wauwatosa Savings and Loan, 7500 W. State St. (November on the third Thursday. No meetings in July, August and December.) Meetings begin at 7:00 pm.

OZAUKEE RADIO CLUB
Second Wednesday - 7:30 p.m. - Saukville Community Center.

QCWA - WISCONSIN CHAPTER #55
June 4, 1988. Port Washington Fish Shanty, social hour begins 11 a.m., guest and visitors are welcome.

QCWA - SOUTHEAST WISCONSIN CHAPTER #162
Meets third Monday monthly, 7:30 p.m., Around the Clock Restaurant, 3012 Rapids, Drive, Racine.

RACINE MEGACYCLE CLUB
Second Tuesday, 7:30 p.m., Red Cross Bldg., 4521 Taylor Ave., Racine, WI

RIVERLAND AMATEUR RADIO CLUB
First Tuesday - 7:30 p.m. - Onalaska Community Center, Onalaska WI.

ROCK RIVER RADIO CLUB
First Tuesday - 8:00 p.m. - Dodge County Sheriff's Dep't, 141 N. Main, Juneau WI.

SHEBOYGAN COUNTY AMATEUR RADIO CLUB
Second Tuesday - 7:00 p.m. - Sheboygan Red Cross/Boy Scout Bldg., 2032 Erie Ave.

SOUTH MILWAUKEE AMATEUR RADIO CLUB
First Wednesday - Legion Post 434, Shepard Ave., Oak Creek WI. Auctions in March and October.

TRI-COUNTY AMATEUR RADIO CLUB
Meetings are held at 7:00 p.m., the second Sunday of each month at the Trinity Lutheran Church, 314 Barrie, Fort Atkinson, WI.

WEST ALLIS RADIO AMATEURS CLUB
Second Tuesday - 8:00 p.m. - St. Francis Savings, 9330 W. Greenfield Ave.

WISCONSIN VALLEY RADIO ASSOCIATION (WAUSAU)
First Tuesday - 7:30 p.m. - Location varies; info on 146.04/64, Wausau.

YELLOW THUNDER AMATEUR RADIO CLUB (BARABOO)
Days rotate: 1988 meeting dates: Mon., May 16, Tue., Jun. 14, Wed., Jul. 13, Thu., Aug 11, Mon., Sep. 19, Tue., Oct. 11, Wed., Nov. 16, Thu., Dec. 15. Monday meetings in room 28D of the Baraboo Civic Center; all others in room 25. Meetings start 7:30 p.m.

Let Badger State Smoke Signals know your club's meeting dates, and we will let our readers know of your meetings and activities. There may be Amateurs in your area interested in joining your club, or members of other clubs interested in making an interclub visit.

The TEST POINT



The following are known locations where Amateur Radio license examinations are scheduled in the Badger State area.

May 7, 1988	Cedarburg, WI (BE)
May 14, 1988	Manitowoc, WI
May 14, 1988	Rhineland, WI
May 21, 1988	Milwaukee, WI (MRAC)
May 21, 1988	Park Falls, WI
June 16, 1988	Onalaska, WI
June 18, 1988	Menomonie, WI
June 19, 1988	Stevens Point, WI
July 8, 1988	Eau Claire, WI
July 9, 1988	South Milwaukee, WI (BE)
July 9, 1988	Eau Claire, WI
August 13, 1988	Rhineland, WI
September 24, 1988	Wisconsin Rapids, WI
October 15, 1988	Eau Claire, WI
November 12, 1988	Menomonie, WI
November 12, 1988	Rhineland, WI
December 3, 1988	Stevens Point, WI
March 18, 1989	Menomonie, WI
June 17, 1989	Menomonie, WI
November 11, 1989	Menomonie, WI
Monthly, First Sat.	Racine, WI
Monthly, Third Sat.	Loves Park, IL

GENERAL RULES FOR MOST EXAMINATIONS:

Be sure to check with sponsors in the event there are changes and/or errors in the dates or information given.

Most examinations require filing an FCC Form 610 and advance registration at least 30 days before the exam date. (Some VECs permit walk-ins. Check with sponsor.)

To register, you must first secure a copy of the current FCC Form 610 and fill it out completely (AND CORRECTLY). Get your form from an FCC Field Office, the ARRL or Badger State Smoke Signals. Send a 22¢ SASE if you request one from the ARRL or BSSS. In most cases, forms can also be obtained from the sponsoring group.

ARRL/VEC examinations require a check for \$4.55 payable to "ARRL/VEC".

The FCC now requires applicants to show their original Amateur license to the VEC. A copy of your license must be attached to your FCC form 610. You will also be required to have a photo ID, or other acceptable identification.

Technician class licensees must show proof of testing before March 21, 1987, in order to upgrade to General with a code test only.

Additional information is given below.

MILWAUKEE METRO AREA TEST TEAM - MRAC/VEC (MRAC)

May 21, 1988

Tests are given at 9:00 AM in room 256, Wauwatosa East High School at 74th and Milwaukee Ave. Use the east (74th St.) entrance.

Bring your original license and 3 good photocopies, a pen, and \$4.55 for the exam fee. Walk-ins accommodated if time permits.

Register in advance on a Postal Service 14 cent postcard; print the grade of license you are applying for, your name, address, and telephone number. Send to: The Milwaukee Radio Amateurs' Club, Inc., N50 W16328 Pin Oak Court, Menomonie Falls WI 53051.

BADGER EXAMINERS (BE) - MILWAUKEE

May 7 (at Ozaukee Club Swapfest in Cedarburg - 9:00 a.m.)

July 9 (South Milwaukee Swapfest)

Unless otherwise noted, examinations are administered from 1 to 4 p.m. at St. Nicholas Parish, 5353 N. Green Bay Ave. (2 1/2 blocks south of Silver Spring), Milwaukee. Bring your original license, a good photocopy of it, and a second form of ID. Walk-ins are welcome. Technician license holders must bring proof of testing prior to March 21, 1987 to upgrade to General with code test only. Advance registration: send post card with your name, test or tests you wish to take, date you wish to be tested, your call sign, address and phone number to Badger Examiners, Mickey Dolgin, KB9G, 507 E. Spooner Rd., Fox Point WI 53217 (414) 351-5311.

Park Falls, WI - ARRL/VEC

Flambeau Amateur Radio Club. Contact: Art Dunham, NC9G, 656 S. 7th Ave., Park Falls, WI 54552.

APPLETON, WI

Contact: Larry Siebers, KD9IA, 7077 Weyers Rd., Freedom, WI 54130. (414) 788-3823

MANITOWOC, WI

May 14 - Hamfest

Contact: Mancorad Radio Club, P.O. Box 204, Manitowoc, WI 45220.

ONALASKA, WI

Thursday, June 16, 1988

Both exams will be at the Onalaska Community Center, 515 Quincy Street, Onalaska, WI 54601. Reservation recommended. Contact Rick Williams, KV9U, 524 Troy Street, Onalaska, WI 54650, phone (608) 783-8028. Walk-ins accepted but no guarantee of exam availability.

STEVENS POINT, Wisconsin

June 19 and December 3, 1988

By Central Wisconsin Radio Amateurs, Ltd. Contact Joseph W. Larson, N9JW, 644 Portage St., Stevens Point, WI 54481. (715) 344-1182.

WISCONSIN RAPIDS, WI - ARRL/VEC

September 24, 1988

Contact Eugene R. Santoski, K9UTQ, 1220 18th Street South, Wisconsin Rapids, WI 54494. (715) 423-6368.

EAU CLAIRE, WI - W5YI/VEC

9:00 A.M. to Noon, except July 8, 1988, 6:00 P.M. to 9:00 P.M. Exams are given at the University of Wisconsin Facilities Management Building in Eau Claire, except that the July exams are given in conjunction with the Eau Claire Amateur Radio Hamfest. There is no pre-registration requirement. Contact: Carl Searing, W9NW, 1129 McKinley Road, Eau Claire, WI 54703. (715) 834-1303.

MENOMONIE, WI

Credit Union Office Building, Conference Room, lower level, 444 S. Broadway, Menomonie, WI. Contact: Dr. Thomas W. King, KD9TT, c/o office, 444 S. Broadway, Suite 1, Menomonie, WI 54751. (715) 235-4747 (O), 235-5757 (H).

RHINELANDER, WISCONSIN

May, 14, 1988

August 13, 1988 (Rhineland Swapfest)

November 12, 1988.

All except August will be held at Nicolet College Science Center in the Fireside Room starting at 9:00 a.m. All sessions held at Nicolet College will be by appointment only. Registration required thirty days in advance of testing session, with check payable to "DeVry VEC" for \$4.55. Only Technician class and above will be given at the testing sessions.

August 13th testing session will be conducted at the Rhineland Swapfest, corner of Chippewa Dr. and Co. Hwy. CC in the Rhineland Ice Association Ice Arena. Walk-ins will be accepted at the swapfest. Registration on the hour from 9:00 a.m. till 12:00 noon.

Novice tests will be given by appointment at any time except at regular scheduled testing sessions.

Contact: Leonard Bauman St., K9RMN, 1312 Dorothy St., Rhineland, WI 54501. (715) 369-3296.

RACINE, WISCONSIN - ARRL/VEC

First Saturday of each month except during summer and the Christmas holidays.

Exams are given at the Red Cross Building, 4521 Taylor Ave., Racine, WI. Walk-ins are permitted.

Send pre-registration to: William R. Firchol, Jr., N9DMP, 1912 27th Street, Kenosha WI 53140.

Third Saturday of every month.

Northern Illinois Volunteer Examiners (DeVry VEC). Held at North Suburban Library on North Second Street in Loves(Park, IL. Contact: Gene Melton, AK9N, 2901 Billie Rd., Rockford, IL 61109, (815) 874-6867

Minnesota Tests. Contact:

Amateur Radio Association of Bloomington, Art Putt, 881-7187.

St. Paul Radio Club, Jay Bellows, 222-7253.

Rochester, MN. RARC VE team (ARRL/VEC). Contact Bob, KØSIR, evenings at (507) 282-8057.

This section of Badger State Smoke Signals is available to publicize your Volunteer Examiner Amateur Radio license examination schedules.

Please send us your schedules of dates, times, and locations that you will be conducting examinations and we will include the information here. Be sure to include contact address and any other necessary requirements. Information should be sent to K9EN or K9ZZ at the address shown on page 2.

My Latest Computer

I bought the latest computer, it came completely 'loaded'. It was guaranteed for 90 days, but, in 30, was outmoded!

--N9CFN

Let the kids wear long hair while they have it; later on they'll have nothing but fond memories.

You can't always go by expert opinion. A turkey, if you asked a turkey, should be stuffed with grasshoppers, grit and worms.

Wisconsin Nets Association Ltd.

WISCONSIN NETS

NET	WNA	FREQ	UTC	CDT	MANAGER
BWN	YES	3984	1100Z	0600	WD9IID
BEN	YES	3985	1700Z	1200	KA9RII
WSBN	YES	3985	2230Z	1730	K9EP
WNN	YES	3723	2300Z	1800	KA9TTM
WSSN	YES	3645	2330Z	1830	N9BDL
WIN-E	YES	3662	0000Z	1900	WB9ICH
WIN-L	YES	3662	0300Z	2200	W9NGP
NWTN	YES	34/94	2330Z	1830	NS9Q
GR.BAY NO		72/12	0145Z	2045	WB9NRK
			THU.	WED.	
RACES NO		3993.5	1715Z	1215	WC9AAG
			USB TUE. & THUR.		
RACES NO		3993.5	1300Z	0800	WA9OAY
			LSB SUN.		

Section Manager's notes



Richard R. Regent, K9GDF
5003 South 26th Street
Milwaukee, WI 53221

All monthly traffic (SARs) reports, net reports, and PSHR reports should now be sent only to our Section Traffic Manager, K9UTQ, in Wisconsin Rapids, by the 6th of the following month. K9UTQ is available on CW, SSB and packet radio. This will simplify and consolidate the reporting system, which has been successfully adopted by other ARRL Sections. K9GDF will be working harder on SM duties.

See you June 4th, when Wisconsin Chapter 55 of QCWA meets for a delicious dinner, delightful meeting and interesting auction, Port Washington Fish Shanty, social hour begins 11 a.m., guests and visitors are welcome.

June 9th through 11th, annual Special Olympics events at Stevens Point needs more communicators to assist, contact W9BCC.

June 11th, Wisconsin Nets Association Delegates meeting at QTH of WNA's Chairman, N9GJI, in Iola. N9GJI tip for traffic trainers, "On-the-air traffic training is good as long as it's not all lecture, pedantic, or read verbatim." WNA Committee to study traffic training is N9GJI, N9FVN, and K9LGU. Traffic handling through packet radio channels is being studied by K9ANV and KA9VII, give them your recommendations. N9DGL, WNN NM, is moving to new QTH. NS9Q is new NWTN NM.

June 16th, exams at Onalaska Community Center, reservations with KV9U.

June 18th, exams at Menomonie, details from KD9TT.

June 19th (Father's Day), CWRA will hold its Swapfest and Family Picnic at Stevens Point's Bukolt Park with free admission, contact N9JW in advance if you plan to take an exam.

June 25th, Milwaukee City of Festivals Parade needs more ham communicators, contact EC WB9SM for details about how you can assist.

On June 25th and 26th, earn 100 bonus points for sending a proper message to me or Section Emergency Coordinator, W9ZAG.

Welcome N9GHZ, new PIA and EC of Taylor County.

Sorry to report Silent Keys WB9GYQ, WB9QZA, and WD9GFT.

AJ9U is looking for a rotor for his vertical.

Vic, KA9TEP, looked everywhere for the original of the new W/K Club roster he just printed. After a few days, Vic found out that his young visiting grandson folded the roster to make a paper airplane, and then took it home for some rigorous test flights.

TRAFFIC TOPIX

Gene Santoski, K9UTQ
Section Traffic Manager
Wisconsin Section ARRL
1220 18th St. So.
Wisconsin Rapids, WI 54494

The Robins are back, the Martins are back, the bugs are back, the static is back, and the flowers are blooming. All familiar signs of spring. This is the time of year when our thoughts turn to the out of doors and fishing, camping, travelling, yard work and gardening. Oh yes, we still have thoughts about radio and nets but they seem to take less priority in our minds when the weather turns nice and lures us away from our radios. The end result of course is a drop in activity on the traffic nets, ie - less checkins and less traffic. Spring storms and their inherent static replace the long skip as a "net pest". But, somehow, we manage to cope with the situation and the nets do continue to operate and survive.

We always have to be mindfull of the fact that there is a need for nets year-round. Traffic nets serve as a routine training ground to keep our traffic handling skills sharpened in case we are called upon to provide communications in a disaster/emergency situation. We cannot forget the fact that we enjoy Amateur Radio as a hobby simply because we provide a service to the public in time of need. What I am trying to say is that just because the weather draws us away from radio activity to an extent, we should not become so docile in net activity so as to become sluggish in our operating skills with regard to traffic handling. Try to be a regular (at least once weekly if not more) participant in a traffic net during the summer months so that your operating skills remain sharpened because you never know when you might be called upon to use them.

In a recent issue of Smoke Signals, I made an error regarding the sending of traffic on packet. I stated in an example that to send a piece of traffic to California you would send ST 67403 @ NTSWI. I was wrong and realized it when I read through my copy of Smoke Signals. Also, it was brought to my attention by several observant readers. I guess making a mistake is a good way to find out if anyone is reading my column - HI HI. At any rate, what I should have stated was to send ST 67403 @ NTSCA. In other words, the message is addressed to a Zip Code of 67403 in California no Wisconsin as I earlier mentioned. My apologies and I hope that I did not cause undue confusion by this error.

While on the subject of Packet, I might mention the fact that at the recent "on-the-air" meeting of the WNA LTD, Chairman Bob Dunn, N9GJI, appointed a committee to study the use of Packet Radio for traffic handling in the Wisconsin Section. This committee consists of Greg KA9VII, and Ray K9ANV. They will attempt to define problems and provide recommendations to extend the capabilities of traffic handling thru packet radio channels. They will report their findings to the WNA at the next meeting in June.

Another committee was formed for the purpose of studying ways to improve or implement new ways to get traffic training information to interested parties. This committee consists of N9FVN, K9LGU and N9GJI. They will report at the June meeting.

It has been suggested that the Badger Emergency Net meet on the 40 meter band on a trial basis because of experience with bad propagation conditions on 75 meters at noon. The 40 meter frequency will be 7250 KHz for a test period of 10 to 14 days. As of this date, implementation date of the test was announced. Details later.

Bruce Cadwell, N9DGL of Shawano will be moving to Ohio soon. His move will create a vacancy for the office of Secretary of the WNA. If you are a WNA delegate and would like to fill that vacancy, please notify Chairman N9GJI ASAP. Also, Bruce's leaving left a vacancy in another appointment - that of Net Manager of the Wisconsin Novice Net. However, that appointment was quickly filled by none other than Dave Lindsley KA9TTM of Ashland. Bruce served as NM of the WNN for several years and did a very commendable job. His monthly reports were always on time and neatly done. I am sure that Bruce will be missed by many in the Wisconsin Section and I want to say, on behalf of all Amateurs in Wisconsin - "Thank you for a job well done and all the best of luck in your new job!" At the same time, I want to welcome Dave KA9TTM as the new "boss" of the WNN. Dave is a very capable individual and I am confident that he will do a great job in carrying out the traditions of the WNN as Bruce has done. Congratulations and good luck to you Dave!

There has been another change in Net Manager for the Northwoods Traffic Net (NWTN). Greg Garner KA9VII had to relinquish the appointment because of other personal commitments. Mary Schram NS9Q has been appointed as Greg's successor as NM. Greg has done a super job during his short tenure of 2 months. He is a very dedicated traffic handler and I am sure that you will hear him as a regular participant on both Section as well as Region nets. Thanks for your help Greg! Congratulations to Mary in her new appointment. I am confident that she will also do a great job.

I want to call your attention to the article which appeared in the Public Service column of the February 1986 QST (P 77) entitled "Slow-Speed Nets: Learning the FUNDamentals of Handling Traffic. It is excellent reading and Brad Wells, KR7L has done a great job in putting it together. Check it out.

I hope you are enjoying the "Unusual Traffic Queries" column and are getting something out of the series. I enjoy writing them and feel that it is a good way to provide training and information to the general ham community about traffic handling. I also hope that it has caused some "non-traffic handlers" to join our ranks. I am open for any suggestions that you may have for the column.

(continued on page 14)

NEW SECTION EMERGENCY COORDINATOR: FRED R. WENDT, W9ZAG

(Continued from front page)

County level. The District Emergency Coordinator organizes for an area of several counties. The Section Emergency Coordinator plans emergency communications sectionwide.

For the past nine years, Gary Maples, W9OAK, Wausau, has been the Wisconsin Section Emergency Coordinator; planning, organizing and training amateurs in emergency communications. Gary's wife and three teenage daughters, as well as more travel on his job, keep him increasingly busy. Just as Gary skillfully set emergency preparedness priorities, he now has decided to give his family life and work goals top priority. Gary deserves considerable thanks for his dedicated volunteer work, energy and effort in maintaining an Amateur Radio emergency program as Section Emergency Coordinator for Wisconsin.

After a long and careful search, a candidate with some impressive qualifications has been selected as the new Section Emergency Coordinator. This Muskego resident was licensed and a League member since 1954. His current activities include being a Quarter Century Wireless Association member and member of Wisconsin Chapter 55, a Charter member and past president of the West Allis Radio Amateur Club, and Vice President and member of the Board of Directors of the Amateur Radio Emergency Corps, Inc.

For three years, he has been a communicator on the world famous Baraboo Circus Train. For five years, his familiar voice has been heard as Net Control Station operator for Operation Santa Claus. Santa has written me an impressive letter thanking the NCS for reporting a storm in Northern Canada near Hudson Bay. By taking a recommended detour to avoid the bad weather, Santa and his reindeer were able to get their precious gifts delivered to the kids on time and without any problems.

This candidate also has eight years experience as Deputy Emergency Coordinator of Milwaukee County for Amateur Radio activities. During the past nine years, he has directed severe weather reporting around Southeast Wisconsin as a first respondent for Amateur Radio at the Mitchell Field Weather Offices during every watch and warning.

He also works well with people as a businessman in the role of Vice President of Kilbourn Engineering, a manufacturer of

nuclear reactor components. He is affiliated with professional groups such as the American Society of Mechanical Engineers and American Society of Testing and Materials.

These qualifications, coupled with his eager enthusiasm, make it my pleasure to appoint Mr. Fred R. Wendt, W9ZAG, as Section Emergency Coordinator of Wisconsin. Congratulations, Fred.

Richard R. Regent, K9GDF, Section Manager, Wisconsin Section ARRL
5003 South 26th Street
Milwaukee, WI 53221

Congratulations, too, Fred, from the BSSS staff: Ken, K9EN; Jim, WB9UQT; Harry, K9EHJ, and Jim, K9ZZ!

Central Wisconsin Radio Amateurs, Ltd.

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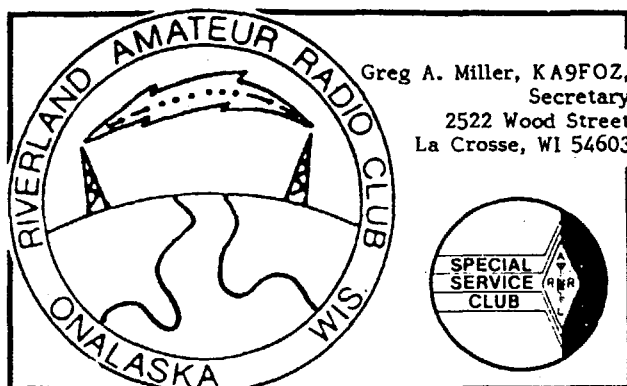
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Greg A. Miller, KA9FOZ,
Secretary
2522 Wood Street
La Crosse, WI 54603

On April 5, 1988 at 7:38 p.m. the regular monthly meeting of the Riverland Amateur Radio Club was called to order by President Craig Goldbeck. The minutes of the March meeting were approved as read from the Badger State Smoke Signals. The Treasurer's report was approved.

37/97 REPORT

The Repeater Technical Committee will study and recommend a suitable replacement for the repeater at such time that we have reached the goal of \$1000. It was reported that we are \$340 short of that goal but that after the May meeting we should be at or near the goal.

VOLUNTEER EXAM REPORT

Next exam will be on June 16 at the Community Center. This will be for anyone that wants to upgrade or obtain an Amateur license. Anyone who is planning to take an exam please inform Rick, KV9U, as soon as possible so the required amount of tests can be ordered. Volunteer Examiners are needed to help with the testing; if you are interested in becoming a volunteer, see Rick.

JACKET REPORT

Craig showed everyone the style of jacket that can be purchased and restated the price; anyone interested in buying one should place an order with Craig.

OLD BUSINESS

The May Auction was discussed as to how it would be run. Some of the questions raised were: what type of items could be donated, could a minimum price be put on the item, should a percentage of the selling price be donated to the club. It was decided that the person donating the item could make his own decision as long as everyone is informed. Items could be Ham related or not. Bill, WB9VYI, volunteered to be our Auctioneer that night.

The Valley View Mall display, which is planned for the weekend of June 25 and 26, was discussed. Greg, KA9FOZ, and Rick, KV9U, volunteered to be on the committee to plan the display at the mall.

It was brought to the members' attention that it may be a good idea that we set a tentative date for the purchase and replacement of the repeater; this started a further discussion on different types and prices of what's available. It was decided

that any further discussion on this would be held until after the May auction.

NEW BUSINESS

Two volunteers were sought to start planning a Novice class. It was suggested that we wait until after the Mall display in June. There were no volunteers.

The following people have volunteered for the Field Day committee: Craig Goldbeck, Mike Tessmer, Steve Pavela, and Ron Reed. It was noted that we would try to obtain the same site as last year as the site this year. The goal will be to improve our score over last year.

The club is planning a summer picnic; anyone with suggestions on this should bring them to the next meeting.

Feroz, N9FJL, asked for two volunteers to be his guests on his Radio show on Friday night. It would be a discussion on Amateur Radio over the 2-hour talk show. Anyone interested should see Feroz after the meeting.

Kent, W9LZQ, reminded us of the Riverland Packet Conference to be held in Winona at the Courthouse Annex on April 16 at 9:30 a.m.

Winner of the \$10.00 and the chance to run the next drawing was Art, WØJDC.

Total members present was 34.

The meeting was adjourned at 8:20 p.m.

Respectfully submitted:
Greg A. Miller, Sec.-Treas.

ADDITIONAL NOTES

This was an unusual meeting for our group in that we had two guest speakers, instead of just one or none. Both were very informative, and we thank them both for taking their time to attend our meeting.

First was Michael Rich, representing the Boy Scouts. He gave us a description of the Explorer Post program and told us how we, as an Amateur Radio club, could sponsor a post. This was received with great interest by the members, as it seemed that they were giving a great deal of attention to his talk.

This program sounds like it would be of great value to all that would be involved, as well as for Amateur Radio locally. I would encourage all members to put a lot of thought into this adventure and bring them to the May meeting for consideration.

Next on the agenda was a talk by Kent Helman on the A.R.E.S. and Skywarn programs in La Crosse County. Below is a brief rundown of his talk:

Following the business meeting, Kent, W9LZQ, EC for La Crosse County, discussed his priorities for both A.R.E.S. and Skywarn in the year 1988. For the La Crosse County A.R.E.S., the priorities are to increase the number of public service activities in which members can participate; rejuvenate members' interest in A.R.E.S.; increase publicity efforts with

emergency agencies, informing them of our capabilities; and redevelop current and non-existent relationships with emergency services agencies and personnel.

For Skywarn, the priorities are to expand spotter coverage to the north and south of La Crosse County along the Mississippi River; increase the number of hams who will operate at the National Weather Service office; develop packet communications at the NWS office; and to develop at least one Skywarn instructor within the Amateur ranks, to be trained and certified by the Weather Service.

To this end, two appointments of Assistant Emergency Coordinators will be made. One will be responsible for all A.R.E.S. activities, and the other responsible for Skywarn organization and activities.

For anyone interested in participating in either Skywarn or A.R.E.S. who did not attend the club meeting, please give Kent a call at 783-8135. La Crosse County residency is not required for either Skywarn or A.R.E.S. We need more volunteers with both organizations.

One last comment: The officers of the RARC meet the 3rd Wednesday of the month; if you would like to get a hold of one of us and discuss something of interest before the regular meeting, this would be the night.

73, Greg

MEMBERS PRESENT

Craig Goldbeck	N9ETD
Gary Countryman	KD9RL
Gary Simenson	KA9BRA
Greg A. Miller	KA9FOZ
Duane Fruechte	W9HWQ
Hugh Barker	KAØEJZ
Kent Helman	W9LZQ
John Young	W9KAZ
Bruce Bjerstedt	K9CUT
Feroz Ghouse	N9FJL/4S7FG
Jim Brooker	N9DBK
Bill Wood	WA9VYI
Karl L. Olberg	W4ST
John Kass	WA9IZY
Walter Altas	WD9GCR
Glenn W. Whitlock	NØBBW
Rick Williams	KV9U
Ron Reed	KD9OY
Art Osborn	WØJDC
George Koner	KA9HOP
Mike Tessmer	NØBSH
Ralph Jahimiak	WA9OAE
L.F. Bentzen	K9EGO
Ray Wakeen	WA9HHM
Charlie Burch	KA9UUK
Gary Webb	NI9V
Herman Ludvik	W9HJV
Andy Boomer	N9HBQ
Bill Winder	K9EGQ
Tim Stoffel	NS9E
Curt Phelps	KA9YPF
Jim Burcum	K9LBX
Steve Pavela	KA9TSW
Van Elston	WA9FIO

Guest:

Michael K. Rich

(Continued on page 9)

Evelyn Fox, WB9QZA: Silent Key



Evelyn Fox, WB9QZA, passed away at the end of March, 1988. She was a remarkable woman and a very special Ham.

Evelyn did not become a Ham Radio Operator until late in life. She had celebrated her Golden Wedding Anniversary, and it wasn't until her husband passed away that in her loneliness she looked to Amateur Radio for companionship.

Why Ham Radio? Well, back in World War II, she had a son who was in the service and, unfortunately, never returned. He died in the Philippines. It was during those war years that she became a part of the Civil Air Patrol, and in that capacity had learned to copy Morse Code at 10 words per minute. Following the war, her code abilities lay dormant until she turned to Amateur Radio.

Evelyn had read a newspaper article about a Novice class beginning at my home in Baraboo. She drove to Baraboo from her home in Merrimac, 13 miles away, and joined in the class. In time, she passed her tests and became a licensed Amateur Radio operator. How remarkable to begin a Ham career at the age of 78 years; remarkable enough, in fact, that Paul Harvey told the entire country on one of his ABC Radio broadcasts! Later, Evelyn obtained her Technician license, but was unable to copy code well enough to pass her General class code test.

Because she needed help to copy code when she made contacts, I invited her once to come to my home some morning on my day off, and I told her I would help her. That was the beginning of a long and rewarding relationship, because for over

seven years she would come to my home almost every Friday, in rain or shine, winter or summer. From 10:00 a.m. to noon, we would tune around the dial to answer CQs. She would use the straight key, and I would help her to copy the CW. After a while, I built a memory keyer, and we could let the keyer send some parts of the QSOs, such as the name, QTH, rig and antenna.

By spending only two hours a week, Evelyn eventually contacted all 50 states and several countries. We set up a sked for the last state, North Dakota, but later she also worked it by just tuning around. And, when she got her Worked All States, Paul Harvey told the nation of that achievement as well.

She loved to get QSL cards; many times she would tell me how it would make her day to find a QSL card in the mailbox.

Evelyn's last QSO was on April 9, 1984, at the age of 87 years!! After that, she suffered strokes and was not able to get on the air again. When she was 85 years old, she had a QSO with a 92-year-old Ham, WA6IFQ, who was using a Heath HW-16 rig. All in all, Evelyn logged 886 QSOs with me. She had QSL cards from 37 countries, besides the 50 states.

Evelyn was a very special Ham. Rarely did weather prevent her from driving from Merrimac to Baraboo. She had great determination. She was kind and gracious.

She was buried from St. Mary's Roman Catholic Church in Merrimac on the day before Easter. How fitting to have the message of the resurrection proclaimed so dramatically, with Easter lilies to remind us of the life beyond. God bless the memory of Evelyn Fox, WB9QZA, whose key is now silent.

- Phil Anderson, W9TP
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Eau Claire Amateur Radio Club

Bob Fallis, W9BAR,
Secretary
1851 McKinley Road
Eau Claire, WI 54703

The next meeting of the club will be held at 7:30 p.m. in the Parks and Recreation Building May 10th.

MINUTES OF THE APRIL 12TH MEETING

The meeting was called to order at 7:30 by president Jerry Marx, NG9A. Thirty seven members and guests were present.

The minutes of the March meeting were read and approved. The treasurer's report was read and approved.

OLD BUSINESS

KD9YO, Steve, reported on progress for the Hamfest. All arrangements have been completed for the building. Anyone having the check list from last year's event are asked to call Steve. Flyers were distributed at the Madison and Rochester Hamfests. Don, K9UXP, suggested that we pick another date for next year's event. We now are on the same weekend that Milwaukee holds theirs.

Layne, KD9OB, presented copies of the by-laws that go along with our incorporation. He explained the advantages of our club being incorporated, and the shortcomings associated with our present constitution. If we changed, the club would function as usual, with only those changes being made that are necessary to comply with the legal requirements. Carl, W9NW, made a motion that our present club be disbanded at once, and that all join the

Eau Claire Amateur Radio Club, Inc., together with all its goods, chattels and appearances thereunto. After a brief discussion, the motion was called, and passed unanimously.

NEW BUSINESS

W9NW reported that we have received a request from the March of Dimes to assist them with their Walk-A-Thon. They will be holding two events this year at the same time, one in Chippewa Falls and one in Eau Claire. The date is April 23. A sign-up sheet was passed for volunteers, and anyone wishing to help is asked to call. Andy, KA9HWN, will supervise the Chippewa Falls operation.

Harry, W9FYI, asked for our help in controlling the American Legion parade, to be held July 17th.

Patrick McNally has requested that we update our emergency call-up schedule. Application forms for those who wish to participate in the Sky Warn Net were asked to register. The call up names will be taken from the applications. KC9NN and W9NW will continue to be net control operators during operations.

Exams will be given April 16th. They will be held at the usual location, the Facilities Management building at the University of Wisconsin, Eau Claire; hours, 9 until 12.

It is time to start thinking about Field Day. More next month.

LUNCH COMMITTEE: KA9HWN, KB9R and KD9YO.

Meeting adjourned.

Bob Fallis, W9BAR, Secretary

NEXT MONTH: WB9NYG meets royalty.. You'll meet a Wisconsin Amateur Radio pioneer.. Who did K9EN's camera catch at Jefferson? And K9ZZ's at Madison? This and more in June!

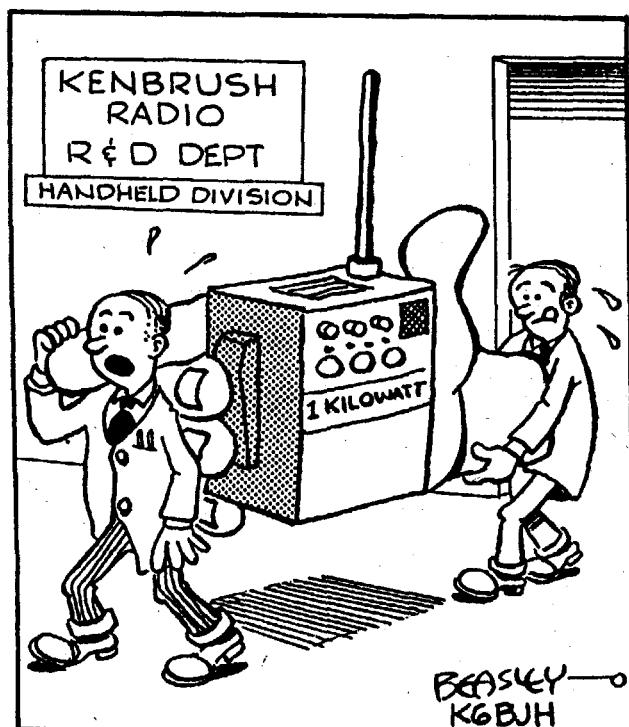
146.88 Skywarn Net Readies for Season

With spring on the doorstep and summer close on her heels, thoughts must unfortunately turn to the impending season of severe weather. As a coordinator of the South Central Wisconsin Skywarn Net, I would like to take this opportunity to comment upon the operation of this year's net.

As in the past, the net will activate over the 146.280/.880 repeater, which occupies tower space graciously provided by WILV Radio (94.9/FM) atop the Baraboo bluffs. From that location, the repeater covers an area of approximately 31,400 square miles. All hams are encouraged to check into the Net during severe weather and report local conditions to the Net Control Station according to the criteria listed below. Your location relative to a highway, municipality, or county is necessary. The Net Control Station will then pass your information to the National Weather Service located at the Dane County Regional Airport in Madison via a ham radio operator who will continually monitor the Net frequency from the Weather Bureau during periods of severe weather. This year's net operators include Jim, N9AGH; Jim, WD9FRF; Bryan, N9GBJ; Kevin, WB9YHB; Bob, K8IFE; Frank, WB9NOV; Dale, N9FOI, and John, KC9XH.

The Net may operate on either of two status levels during severe weather. The Net will be activated under FULL ALERT STATUS whenever a severe thunderstorm or tornado warning is issued for any of the counties in south-central Wisconsin. During full alert status, all traffic must be passed through the Net Control Station, with severe weather or emergency traffic the only communications allowed. The Net may also be activated under or downgraded to STANDBY STATUS whenever severe weather

(Please turn to page 11)



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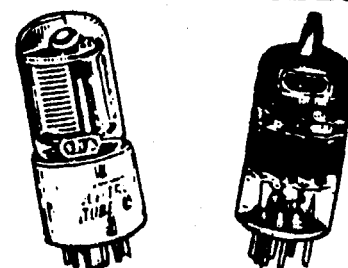
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8 Wisconsin Stations to Celebrate Constitution's 200th

Eight Wisconsin club stations will help celebrate the 200th birthday of the Constitution of the United States by operating with special call signs from May 14 to May 20, 1988.

The stations are listed below, in alphabetical order by location, along with expected bands and modes of operation and QSL addresses:

ALBANY: K200WMV, Green County Amateur Radio Association. Planned: 10, 15, 20, 40, and 80 meters, CW and SSB. QSL to Green County ARA, 2012 11th St., Monroe, WI 53566.

CUDAHY: NK200G, Greater Milwaukee DX Association. Planned: 144, 220, 160, 75, 80, 40, 30, 20, 15, 10 meters, packet, RTTY, CW, SSB, FM. QSLs: GMDXA, 6026 S. New York Ave., Cudahy, WI 53150.

MADISON: W200JZ, Four Lakes Amateur Radio Club. Planned: 80 through 10, SSB and CW; check just above the low end of the General portion of the phone bands. QSLs: Frank Holliday, WB9NOV, 23 Walworth Ct., Madison, WI 53705.

MADISON: W200JNY, Green Fox Amateur Radio Club. Planned: 80 through 10 meters; SSB, CW and FM. QSLs: GFARC, 123 W. Oshkosh St., Ripon, WI 54971.

MADISON: NB200C, Madison DX Club. Planned: 80 through 10, CW/SSB. QSL to Scot Herrick, 4420 Crescent Rd., Madison, WI 53711.

MILWAUKEE: AJ200U, W/K Amateur Radio Club of Greater Milwaukee. Planned: 5 band SSB, CW, OSCAR, FM. QSLs: W/K ARC, 5766 S. New York Ave., Cudahy, WI 53110.

SHAWANO: WB200BZW, Shawano Schools Radio Club. Planned: 80, 40, 20, 15, and 10 meters, primarily SSB; also 2 meter packet, and 160 meters. QSLs go to Shawano Schools RC, 210 S. Franklin St., Shawano, WI 54166. See operating schedule later in this article.

STEVENS POINT: WB200QFW, Central Wisconsin Radio Amateurs, Ltd. Planned: 160 through 10 meters. QSLs: CWRA Ltd., 1632 Ellis St., Stevens Point, WI 54481.

Thanks to the American Radio Relay League for the above info.

Here is the operating schedule for WB200BZW in Shawano:

Friday, May 13: 6:00 p.m. to 11:00 p.m.
 Saturday, May 14: 8:00 a.m. to 11:00 p.m.
 Sunday, May 15: 8:00 to 11:00 p.m.
 Monday, May 16: 7:00 to 7:45 a.m.; 12:50 to 1:25 p.m.; 3:15 to 6:00 p.m.
 Tuesday, May 17: 7:00 to 7:45 a.m.; 12:25 to 1:25 p.m.; 3:15 to 6:00 p.m.
 Wednesday, May 18: 7:00 to 7:45 a.m.; 12:50 to 1:25 p.m.
 Thursday, May 19: 7:00 to 7:45 a.m.; 12:50 to 1:25 p.m.; 3:15 to 6:00 p.m.
 Friday, May 20: 7:00 to 7:45 a.m.; 12:50 to 1:25 p.m.; 3:15 to 6:00 p.m.

Thanks to Al Hovey, WA9BZW, and the Shawano Schools Radio Club for the above information.

RIVERLAND AMATEUR RADIO CLUB — Continued from page 6)

THE PRESIDENT'S GAVEL

WOW!! What a jump in attendance over last month; that must mean somebody reads this portion of their newsletter.. TEE HEE.. Congrats to the organizer and winner of our first drawing and all who participated and made it successful.

Well, it's Field Day time again and the club committee is forming. If you want to be involved, get in contact with me as soon as possible. We will need some ops again this year, the more CW the better, and we also plan to set up ahead of time this year, instead of at the start. Also on the same weekend we will be involved with a display at Valley View Mall's Leisure Time weekend, for which we also need people. This will give us a great chance to show off Amateur Radio to vast numbers of people in a short time. Our club has a definite need for this kind of activity to showcase our service to the public in the La Crosse area. Greg Miller, KA9-FOZ, is organizing the club effort and would be more than happy to enroll your help if you want to participate.

The club had two short programs after the meeting; one was about sponsoring an Explorer Post, the other was A.R.E.S. recruiting. Michael Rich, chairman of the Explorer Committee for the Boy Scouts, explained the Explorer Post programs. This looks like a good way for our club to get young people involved in Amateur Radio. The Boy Scouts do some preliminary work for you and help to train the committee and advisor; this is a very attractive package. Kent, W9LZQ, presented the A.R.E.S. half, and Kent is looking to revive A.R.E.S. to a higher activity level as it was in the past. He is also looking for two Ass't. Emergency Coordinators to help with A.R.E.S. and Skywarn. Anyone with an interest in this area should contact Kent.

Remember, the May meeting will be followed by an auction. The proceeds will go to the club repeater fund. In June, the meeting will be followed with a video from a Ham that worked at the South Pole for 3 months and was on the air at KC4AAA.

73 until next month,

Craig, N9ETD

RIVERLAND AMATEUR RADIO CLUB

AGENDA FOR THE MAY MEETING

1. Reading of the April meeting
2. Treasurer's report
3. Committee reports
 - a. 37/97 Report
 - b. Mall Display Report
 - c. Field Day Report
 - d. VE Report

4. Old Business

- a. Continued discussion of the Amateur Radio Explorer Post
- b. Set up plans for a summer picnic

5. New Business

- a. Start planning the September Swapfest
- b. Discuss a new member class - family
- c. Other new business from the floor
- d. Cash prize drawing (Art)

6. Adjourn the meeting



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Repeater Profiles



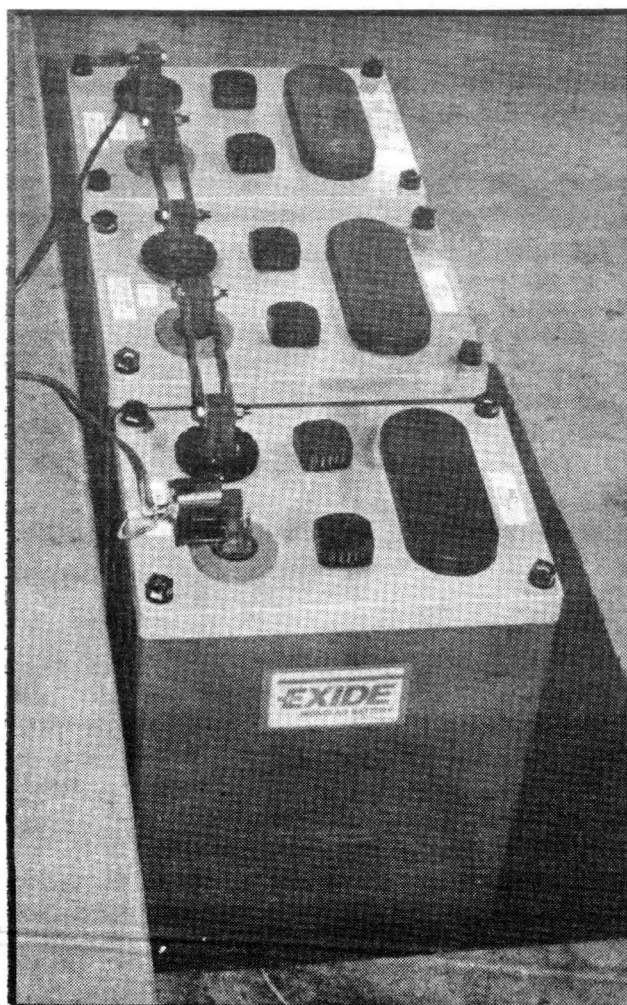
By John W. Frank, WB9TQG
P. O. Box 5113
Madison, WI 53705

HIGH TECH ON TWO METERS

The Milwaukee Area Amateur Radio Society two meter repeater has come a long way since 1976 when it began at a member's house. In the beginning, the antenna was only 100 feet above ground and the frequency was 147.18 MHz. 1981 saw the repeater move to its current location atop the Sandburg Residence Hall on the UWM campus. This location provides excellent coverage for the repeater. Ordinarily, college dormitories are not very impressive buildings. However, this one is 25 stories tall and has a very sturdy tower on its roof.

Wow, what a repeater site! The total height of the building and tower put the repeater antenna 500 feet above ground and almost 1200 feet above sea level. Since the repeater is only about a mile from the Lake Michigan shoreline, the pattern of the 4-bay Phelps-Dodge antenna was set up to be slightly offset to the west, instead of being omnidirectional. The antenna provides 3 dB of gain to the east, 9 dB of gain to the west, and 6 dB gain to the north and south.

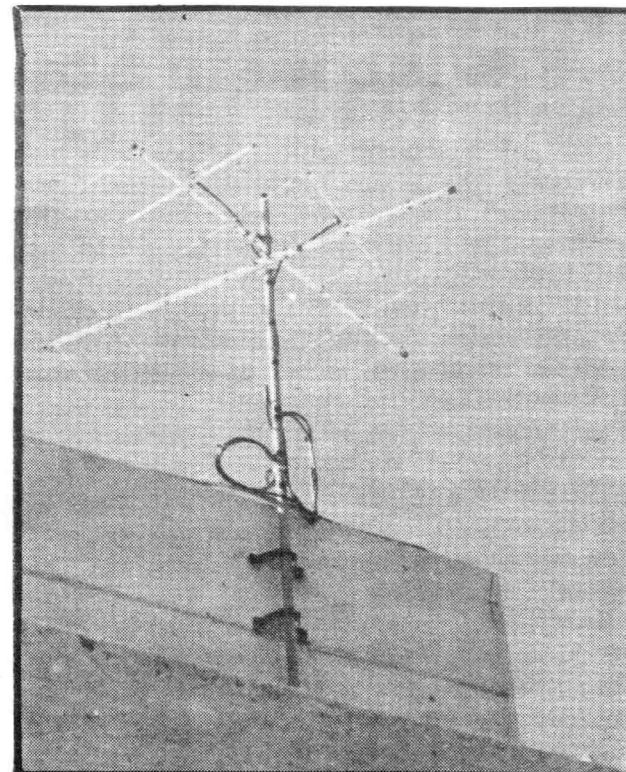
The equipment used at the M.A.A.R.S. feature features a Motorola Micor exciter and a Motorola Research line tube-type amplifier. The main receiver is a Motorola Micor with a 10 dB preamp. The receiver has a sensitivity of .25 microvolts @ 20 dB quieting while providing 100 dB of adjacent channel rejection. The repeater also features two remote receivers with 220 MHz links back to the main repeater site.



Emergency power for the M.A.A.R.S. system is provided by three large storage batteries.

The system is controlled by an Advanced Repeater Controls RC-850, and includes autopatch, autodial, emergency autodial, time of day announcement, touch tone pad test, PL or open access mode, and reverse autopatch. To discourage unlawful autopatch use, all autopatches are tape recorded. Emergency power, enough to keep the repeater on the air without the transmitter amplifier for a week, takes the form of large storage batteries.

The M.A.A.R.S. uses an input frequency of 144.53 MHz, and an output frequency of 145.13 MHz. The IDer is CW or digital voice with the call N9EGR. Remote receiver links operate with the call KA9CEK.



Two 220-MHz Yagis are used for the links from the remote receiver sites.

Annual dues in the Milwaukee Area Amateur Radio Society are \$20 for an individual or \$25 for a family membership. There is also a \$5 initiation fee. Dues are prorated on a monthly basis, depending on which month of the year a new member is approved. For more membership information or for an application to join, write: MAARS, c/o Harry Cieszki, KD9AJ, 3760 South 43rd Street, Milwaukee, WI 53220.

Photos of the M.A.A.R.S. repeater itself and of the tower are on page 11.

BSSS congratulates John Frank, WB9TQG, on his recent appointment as an Assistant Technical Coordinator for the Wisconsin Section of the American Radio Relay League. John would like to hear from BSSS readers about his articles; please send comments and suggestions to him at his address at the beginning of Repeater Profiles.

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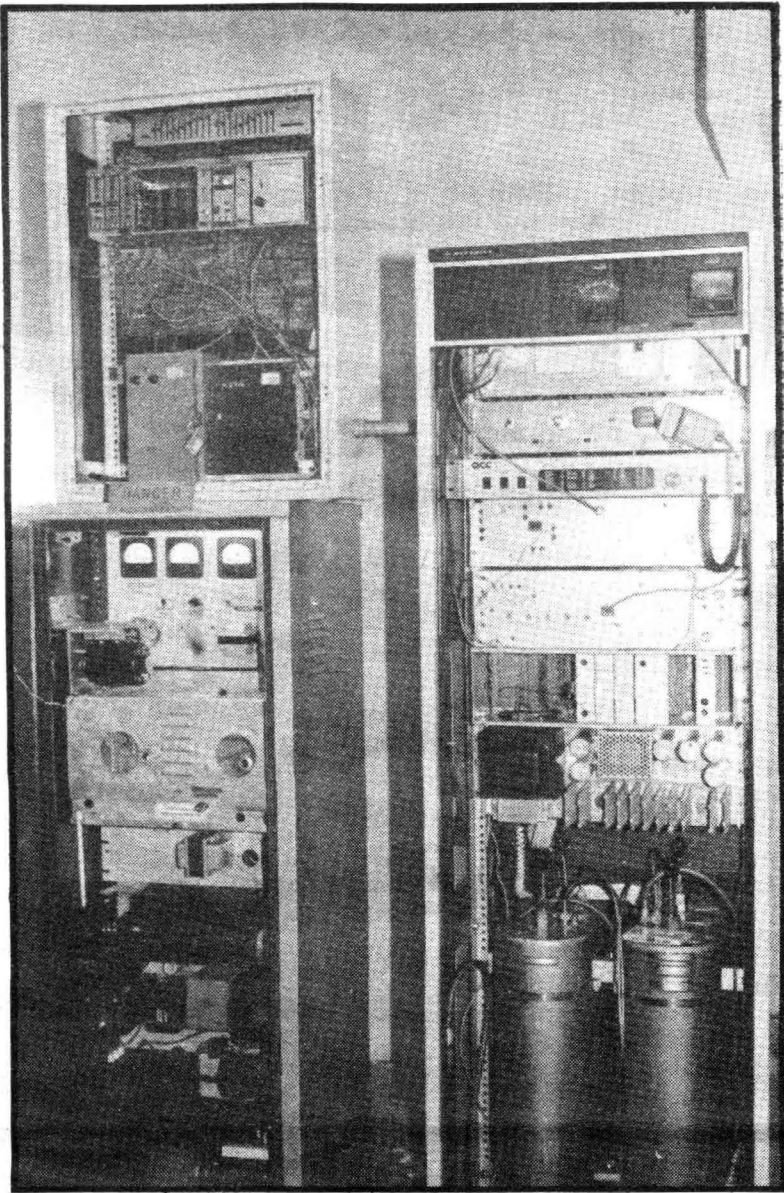
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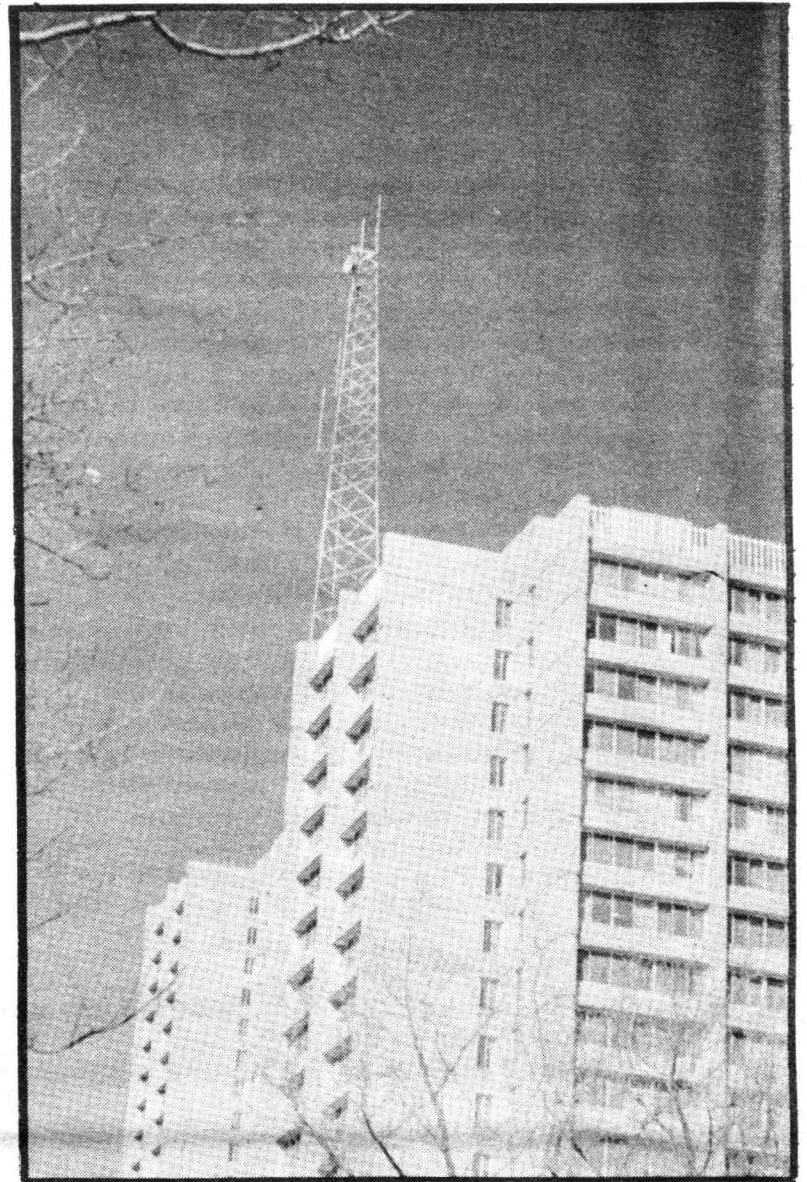
REPEATER PROFILES

(From page 10)

AT LEFT: The M.A.A.R.S. repeater equipment is housed in these cabinets. Equipment details are in the text.

AT RIGHT: The M.A.-A.R.S. antenna is at the top right of this tower, 500 feet above ground; 1200 feet above sea level.

All photos by John W. Frank, WB9TQG.



SOUTH-CENTRAL WISCONSIN SKYWARN NET READIES FOR SEVERE WEATHER SEASON

(Continued from page 8)

er is imminent, but not currently active, in south central Wisconsin. During standby status, routine informal traffic will be allowed; however, stations should pause frequently to allow the Net Control Station to inform the Net of sudden changes in weather conditions.

The criteria for determining what is reportable severe weather remains the same as in past years. Primary emphasis is given to reports of wind in excess of 50 mph, hail 0.75 inches in diameter or larger, obvious funnels aloft and/or tornado touch-downs, and other information indicative of severe weather. Other weather information

falling outside these criteria may be passed to Net Control for general information of those monitoring the Net, but other information will be strongly discouraged when "things get busy." Additional information concerning net operations may be found in THE SPOTTER'S GUIDE, available from the Government Printing Office through catalog number C55.108:ST7 and stock number 003-018-00006-7.

I would like to close by thanking all of those who have participated in any of our weather nets in past years. The purpose of the weather net is not only to provide information to the National Weather Service, but also to dispense weather information to the recreationists, travelers, and residents who monitor the Net during threatening conditions. It is only through the reports of those monitoring the Net that it can provide this information. In addition,

those who operate the Net find it very gratifying to have many checkins. They volunteer many hours of time during the spring and summer and enjoy it taken advantage of. Have a happy summer hamming.. and no WX!

John Offerdahl, KC9XH
Verona, WI

THE NATIONAL WEATHER SERVICE AND THE ARRL have recently signed a Memorandum of Understanding (MOU), which will allow closer cooperation between the Amateur Radio Service and the NWS. In addition to the SKYWARN program, hams will be called upon to assist with emergency communications in large-scale weather situations, such as hurricane emergencies. (Excerpted from The ARRL Letter, 04/08/88).

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FCC Part 97 Rewrite

On March 24, the FCC acted to establish PR Docket 88-139, a proceeding which looks toward the modernization of the rules governing Amateur Radio in the United States. A Notice of Proposed Rulemaking will be issued shortly, but is not yet available; it is said to be an 87-page document, and comments will not be due until August 31 in order to permit careful review and study.

This is the so-called "Part 97 Rewrite." According to the Commission's news release on its action, a reorganization of the amateur rules has not been done since 1951 and the result of ensuing technological advances and operational changes is a patchwork quilt of rules that is often confusing, particularly to the prospective licensee.

Because of unfortunate experiences with a "plain language" rewrite of a few years ago, there is considerable sensitivity in the amateur community to any proposal for sweeping changes in Part 97 despite the laudable objective of making the rules easier to understand. At a press briefing following the Commission's action, FCC staff identified the following as highlights of the proposed rules:

1. References to emissions will be simplified. Permitted modes will be grouped into nine categories with one-word descriptions, with a one-time listing of the emission designators in each category. For example, a reference to "phone" in the rules will incorporate all of the voice emissions now permitted.

2. The following longstanding interpretations will be codified in the rules:

- A. Swap nets
- B. What hams can do in disasters, and to protect the immediate safety of life or property
- C. What hams can do in support of public gatherings (e.g. -athons)
- D. The four-prong "rule of reason" test for newsgathering

- E. The philosophy that amateur frequencies are shared equally by all amateur stations
- F. The circumstances under which FCC personnel can inspect station records
- G. What can and cannot be appended to call sign as a "self-assigned identifier"

3. The following rules, we understand, are proposed to be eliminated:

- A. The entire section governing alien operation, inasmuch as it defines administrative procedures that do not need to be in the body of regulations
- B. The amateur-satellite service rules, insofar as they repeat the International Radio Regulations
- C. Prohibitions against damaging radio apparatus, which are said to overlap local law
- D. Requirements that examination papers be retained by volunteers for a specified period

4. The "basis and purpose," Section 97.1, is untouched.

At this time there is insufficient information available on which to draw any firm conclusions about what is being processed. It appears that the Commission is allowing sufficient time for review and comment, assuming that the NPRM is released within a reasonable time. Copies of the NPRM will be distributed to any interested ARRL members at cost as they become available.

Based upon the information conveyed during the press briefing, it would appear likely that the ARRL may be able to support the overall effort to reorganize Part 97, but that the League will be taking exception to at least some of the substantive changes being proposed.

- From The ARRL Letter, 03/29/88

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HANDI-HAM HQ STATION BICENTENNIAL CELEBRATION: Handi-Ham Headquarters station WØZSW will be using the special event station call sign W2ØØZSW May 7 - 13 (10-14 hours per day!) We will work all bands, CW and SSB. Those contacting W2ØØZSW will receive a beautiful certificate. QSLs go to Courage Handi-Ham System, 3915 Golden Valley Rd., Golden Valley, MN 55422.

MW Chapter of MTC Plans Special Events

April 30 will see once again the MW Chapter of the Morse Telegraph Club at North Freedom for the annual two-nation-wide telegraph hookup which commemorates the birthday of Samuel F.B. Morse, inventor of the telegraph. There will be a dinner; so far, 30 reservations have been received. A good turnout is expected. The nationwide wire is furnished by Western Union and the various telephone companies as a "courtesy wire" for all the old Morse operators left in the United States and Canada.

On May 28 and 29, the MW Chapter will again operate Special Events Station AD9E from 9 a.m. to 6 p.m. on 80 through 10 meters, up 44 KHz from the bottom of the bands, plus or minus QRM. If you work us and wish a QSL (a very nice picture of Morse sending the first message by telegraph), send an SASE and your QSL to Robert L. King, KA9GNY, 411 Lynn Avenue, Baraboo, WI 53913. Please allow 6 weeks for your AD9E card to arrive.

If you are inclined to do a little operating, you are welcome. We will be in a house trailer at the Mid-Continent Railway Museum at North Freedom. Don't worry about the code; we use either American Morse or International.

- Bob King, KA9GNY



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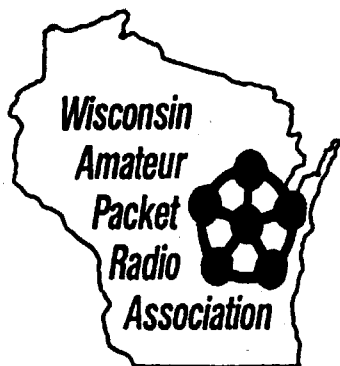
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THE WISCONSIN PACKETEER

Wisconsin Amateur Packet Radio Association (WAPR)
P.O. Box 436 Cedarburg, Wisconsin 53012-0436

Steve Loeffler - WB9ZRE, Editor
123 West Oshkosh Street
Ripon, Wisconsin 54971

Packet BBS Changes Hands

"Radio Free Suamico" ended operations in the last week of March when SYSOP John - AG9V accepted a position with a firm in Dayton, Ohio. A check with packeteers in Ohio confirmed that another BBS in the Dayton area would not serve a practical purpose, so John put out the word that he would sell his BBS system for a very, reasonable price in order that packet could continue to grow in the Green Bay area.

The challenge was accepted by the Green Bay Mike and Key Club. The AG9V system was retired, relocated and reinstalled as the K9EAM BBS with an antenna height of 100 feet above average terrain. Dale - WB9NRK has assumed the position of SYSOP. The system is located at the American Red Cross building in Green Bay and can be accessed thru the WA9SXN digi in DePere or K9OQD-2 K-Node in Appleton. "Radio Free Suamico" will long be remembered for John's dedication to the packet community and the K9EAM BBS will now continue to support the progress of amateur packet radio in Northeastern Wisconsin.

Fourth RiverLAN Packet Conference Another Success

It has been said that it is hard to teach an old dog new tricks. But one would be hard pressed to be present at a RiverLAN Packet Conference and not learn something new about packet radio! Saturday, April 16 was the latest conference with packet operators from all over the states of Wisconsin and Minnesota attending. A total of 30 hams participated in the semi-annual event. Not only were the informal opportunities to chat with other packet operators valuable, but this spring's event provided information to new operators as well as those who have been on for a while.

For the first time a "New Packet Operators' Seminar" was held to discuss the basics of packet operation, bulletin board operation and some of the problems a new operator can expect to encounter. The seminar was exceptionally well attended with the majority of folks either thinking about getting on packet radio or just getting started.

The conference feature presentation was a discussion of networking and TCP/IP by Dan Frank, W9NKK. Dan wrote an article on TCP/IP which was recently published in BSSS. His presentation on networking made it easy to understand packet operation as it generally exists today from TNC to TNC and using NET/ROM and various other protocols.

Dan then explained how TCP/IP fits into the

picture. Dan demonstrated his excellent ability to convey a very complicated subject matter in an easy to understand, systematic way. He distributed TCP/IP disks at the conference for the IBM-PC and will assist Amiga and Mac users in obtaining the program. Other discussions pertained to the current situation with the LSE N/R Digi and the soon to be installed 145.09 LAN digipeater; a discussion of Kantronics K-NODES and the Personal BBS system; and a discussion about the new WA7MBL BBS program OS command with an explanation of how it is being used for database searches on W9LZQ-1 BBS. The presenters were WA9FIO, W9HWQ and W9LZQ respectively.

Following the conference, the RiverLAN business meeting was conducted which resulted in the final adoption of a constitution for the "RiverLAN Packet Organization" and election of a chairman and secretary/treasurer for the coming year. Dan, WCOV was elected chairman and Duane, W9HWQ was the winner of the secretary/treasurer post.

A special thanks to the planning committee for the spring conference, KOBAD, WD9GCR and WBONI. For those who would be interested in hearing Dan's talk on networking and TCP/IP, Dan indicated to us that he would be willing to make himself available on a limited basis for other clubs and groups interested in TCP/IP. His home BBS is W9WI-1 in Madison. The expense and time involved are obviously factors, but consideration might be given to discussing your event with Dan.

Kent - W9LZQ

Dayton HamVention Packet Activities

You are cordially invited by the Ohio Packet Council (OPAC) & Tuscon Amateur Packet Radio (TAPR) to visit us while you attend HamVention '88.

We will be together at a booth inside. We will have both a cork AND a radio bulletin board for your use in sending or receiving non-commercial messages.

Packet Forum Moderator - Bob Neben, K9BL
Friday, 29 April, Room 3

- 1:00 "Packet Radio Introduction"
by Dave Peterson, N7BHC
- 2:00 "Level 1 Discussion - Modems"
by Lyle Johnson, WA7GXD
- 3:00 "Pacsat and DSP" by Bob McGuire, N4HY
- 4:00 "Networking - How to get started"
by Dave Toth, VE3GYQ and
Chris Sullivan, VE3NRT

Packet Radio Dinner
Saturday, 30 April at 6 PM.
McNasty's on Rip Rap Road
Look for announcements and directions
at the HamVention.

Official OPAC HamVention '88 Packet Station

WBMDK-8 (.07) on-site, connected to
N8NN PBBS on 145.01 MHz, 145.07 MHz, 221.11 MHz.
N8NN-8 Net/Rom digipeater on 145.01 MHz.

The N8NN BBS will be about 10 miles north of the HamVention, within line of sight of the Arena. The digipeater is about 4 miles south of the HamVention site.

Other Dayton area PBBSs and digis:

N8ACV PBBS on 145.07 MHz.
WB8ICL PBBS on 145.05 MHz, 145.07 MHz.
DUO, WB3JUK digipeater on 145.07 MHz.

March Statistics on W9WI-1 BBS

Connects, 0000-0600Z:	321 of 757, or 42%
0600-1200Z:	124 16%
1200-1800Z:	159 21%
1800-0000Z:	153 20%

610 messages received, 70 users.

386 messages forwarded to 10 different BBSs.

The most frequent users were other BBSs, with BBSs accounting for 2059 minutes of the total 5109 minutes in which the BBS was in use. (40%)

There were a total of 75 file downloads, and four uploads. (WB9HME's ARRL bulletin uploads logged in as messages sent)

Doug - W9WI

(Message to SYSOPS - I would like to compile a monthly listing of all BBSs in the state for condensed publication in BSSS. If you have the time, I've got the space!)

HF Packet Net

A packet user's net is in operation every Sunday at 1800Z on 7.252 Mhz. The Net Control Station is usually W2RRY in New Mexico. All packet enthusiasts are invited to check in and find out the latest news in packet radio.

Bill - W6OAV

Leroy - NY8R announces that a new Net/Rom node - MAN is now active and serving the Manistee, Michigan area.

AEA Firmware Release

AEA has announced a major firmware (EPROM) release and all registered users will receive a mailing as was the case last year with the FAX upgrade. There are some significant changes in the codes, some additional commands, some new things to facilitate PBBS operations with RLI and

MBL codes, some more fine tuning of the SITOR/AMTOR timing routines, and, of more importance, the addition of a new mode not yet done by any other ham radio manufacturer...it's called NAVTEX - an internationally standardized super-protocol on top of SITOR Mode B that permits the coastal stations world-wide on the NAVTEX broadcast channel on 518 KHz to, in effect, control your station's display and printing of weather and marine information services in an unattended mode. NAVTEX is widely used in Europe and Asia and - as usual - the USA is five years late in getting into the service. The US Coast Guard is already operating NAVTEX stations on 518 KHz at Boston, Portsmouth, Miami and New Orleans, with the west coast NAVTEX stations being installed this year.

Kantronics Upgrade 2.83

I received the 2.83 ROM update the other day and it has some nice features. The long and short J commands are very useful. The long one gives path listings. There is a new Help command and a connect message for both the K-Node and the personal mailbox. It has a battery back-up now, no more messages lost due to power failures or resets. The PBS command has been improved to allow more than a 256 byte message direct entry capability to the mailbox, however, a CR at least before 256 bytes to keep going. The upgrade is well worth the moderate price.

Jim - K9OQO

The following item is too long to complete in one issue, so it is being presented in two parts. Part one follows, with part two next month.

Here is something that every user of a pbbs should have handy in the shack, just like electricity to run your gear.

MBL 331 User Documentation Complete Version

- B - The "B" command logs you off the PBBS and disconnects your call.
- Type "B" to LOG OFF gracefully [ByeBye]. Be sure to hit <Enter> or <Return> after each command.

NOTE: You may also LOG OFF by disconnecting.

- D - The "D" command lets you DOWNLOAD FILES FROM the BBS text file section.
- Syntax: D [filename] <line#> <line#>
- You MUST use PC/MS-DOS filenames.
- You may specify line numbers to look at only a portion of the file.
- Type "D USER.DOC" to download an entire file.
 - Type "D USER.DOC 10" to list the first 10 lines.
 - Type "D USER.DOC 10 20" to list lines 10 through lines 20.

NOTE: You can't "download" mail. Use the "R" command to READ messages.

- ? - The "?" command lets you read this brief HELP file.
- Type "?[LETTER]" for HELP with a single command.

- Type "H" to read a special extended HELP file.
- For example, type "?U" for HELP with UPLOADING.
- Be sure to hit <Enter> or <Return> after each command.

- I - The "I" command gives you information about this PBBS.

- Type "I" to read system information.

- J - The "J" command gives you a list of calls heard by up to SIX TNCs, the channel or service assigned to each TNC, and stations that have been connected to this PBBS.

- Type "JK<enter>" to see calls that have connected.
- Type "JA<enter>" to see calls heard by TNC-A.
- Type "JB<enter>" to see calls heard by TNC-B.
- Type "JC<enter>" to see calls heard by TNC-C, etc.

- K - The "K" command [Kill] lets you KILL or DELETE only messages sent BY YOU or sent TO YOU.

- Type "K[space][message#]" to KILL a specific message.
- Type "KM" to KILL ALL messages sent to you that you have read [KillMine]. This will NOT kill any new mail to you that you have not read.

Note: You can't Kill FILES - only the SysOp can do that.

- L - The "L" command LISTS messages in the mailbox.

- Type "L" to LIST new msgs since you last used the L command.
 - Type "LM" to LIST ONLY msgs TO YOU [List Mine].
 - Type "LN" to list only UNREAD msgs TO YOU [List New].
 - Type "LT" to LIST ONLY NTS msgs [List Traffic].
 - Type "LL[space]10" to LIST the LAST 10 msgs [List Last].
 - Type "L<[space][callsign]" to LIST msgs FROM [callsign].
 - Type "L>[space][callsign]" to LIST msgs TO [callsign].
 - Type "L[space][msg#]" to LIST ONLY msgs ABOVE a given number.
 - Type "L[space][msg#][space][msg#]" to LIST a group of messages.
 - To LIST msgs above #325, type "L 325". Don't forget SPACE.
 - To LIST msgs from #300 to #350 type "L 300 350".
- Be sure to hit <Enter> or <Return> after each command.

NOTE: Check the number of ACTIVE msgs BEFORE using the "L" command to avoid listing the entire system message directory. This may be done with the "V" command.

- N - The "N" command lets you ENTER or CHANGE your name in the database. You can use up to 12 characters. Phony names will be cancelled.

- Type "N[space][YourFirstName]<enter>" to enter your name.

- R - The "R" command lets you READ MESSAGES (not "files").

- Type "R[space][message#]" to READ a specific message. You may have up to 6 message numbers per line.
- Type "RM" to READ ALL messages addressed to YOU [Read Mine].
- Type "RN" to READ ALL NEW messages addressed to YOU [Read New].
- To READ msgs #313 and #325 type "R 313 325". Don't forget SPACE. Be sure to hit <Enter> or <Return> after each command.

New feature: The R command gives you an initial line which simply tells you the BBSs that the mail has been routed thru. To see the full gory details on the times and message numbers at each node, read the message with the V (for VERBOSE!) command like V[space][message#].

NOTE: You READ messages sent with the "S" commands. To DOWNLOAD files, you use the "D" command.

(part two will conclude next month)

WNA - TRAFFIC TOPIX (continued from page 4)

Don't forget to make plans to attend the Annual WNA Picknic which will be held near Wisconsin Rapids on Saturday, September 10th at North Wood County Park. All are welcome. Details forthcoming. Hope to see you there.

That does it for now. In closing, I just want to say that I hope you have a safe and fun summer and that you stay active in the nets.

73, Gene Santoski K9UTQ
Section Traffic Manager

WISCONSIN INTRASTATE-LATE (WIN/L)

Ed Rice, W9NGP, Net Manager
W126 Lang Road
Oconomowoc, WI 53066

March 31 is the end of my second quarter as manager of the Late WIN, and I am happy to report that it is growing. Checkins are increasing, and we are getting more traffic from the 9th Region now that conditions are improving. In March, the total traffic listed was more than double that of February.

W9YCV has the most QNI for the quarter with 65.

W9CXY has the most times 9RN Rep with 31 for the quarter.

73, Ed
(more WNA on page 15)

From The GEARVAKf Bulletin

VOLUNTEER EXAMINERS TOO NICE

The FCC thinks Volunteer Examiners are not being nasty enough, according to an official statement issued Friday by FCC spokesman, Ralph R. Spiffie. Said Spiffie, "Back in the days when the FCC tested people for Ham tickets, our examiners were trained to be real nasty and mean. That way we could intimidate people and weed out the wimps from Ham Radio. Nowadays, Volunteer Examiners refuse to intimidate anybody. All they do is make sure nobody cheats." Spiffie said that the FCC might require Volunteer Examiners to attend a week of Marine Corps Boot Camp to learn nastiness before administering examinations.

--KVM5149

Yellow Thunder

Amateur

Radio

Club

K9ODK
WB9FDZ

The next meeting of the Yellow Thunder Amateur Radio Club will be held on Monday, May 16, 1988 in room 2B0 of the Baraboo Civic Center. A program on video signals will be presented by Ken Ebnetter, K9EN.

The April meeting of the Yellow Thunder Amateur Radio Club was called to order at 7:45 pm by President, Steve Schwoegler.

The following members/guests were present:

Steve Schwoegler, WB9RNL	Wisconsin Dells
Harry Westlund, K9EHJ	Baraboo
Jim Decker, WB9UQT	Baraboo
Jim Romelfanger, K9ZZ	Bababoo
Ken Ebnetter, K9EN	Portage
H. A. Reif, KA9YQP	Baraboo
Art Kleefisch, W9WSS	Baraboo
Harry Mayland, K9FFT	Baraboo
Brian M. Schell	Baraboo
Raymond Matlosz	Reedsburg
Amanda Matlosz	Reedsburg
Mark Ferguson, KA9WSN	Madison

The President introduced our guests for the evening.

Announcements: Member Harold Reif, KA9YQP, upgraded from Novice to Technician. (applause) Jim Romelfanger, K9ZZ, got his certification for license examination. (more applause)

It was announced that Evelyn Fox, WB9QZA, had passed away in March.

There were no communications from the Secretary.

The treasurers report was given. The operating balance was \$288.35 and the the total balance was \$320.29.

New Business: Application for membership was submitted by Brian M. Schell of Baraboo, and Brian was accepted for full membership.

The Buck night drawing was held and was won by Harry Westlund, K9EHJ.

With no further urgent business, the meeting was adjourned at 8:10 pm.

There was a short break for refreshments and equipment setup. The group then viewed the ARRL slide show on Field Day. After this there was a bull session and informal talk with our guests for the evening.

Respectfully submitted

Harry Westlund, K9EHJ, Secretary

YTARC BIRTHDAZE

Harry W. Westlund K9EHJ	May	7
Bob Johnson WB9EIW	May	11
Peter Sweeney WD9JIB	May	13
Steve Schwoegler WB9RNL	May	29
Phil Anderson W9TP	May	31

SENTENCE SERMON

I Don't think much of a man who is not wiser today than he was yesterday.

--Abraham Lincoln

(WNA - continued from page 14)

GLASS ARM REPORT

(Wisconsin Slow Speed Net)

Lee G. Andreas, N9BDL, Net Manager

Route 1, 7600 Highway D East

Lake Tomahawk, WI 54539-9500

I hope this report makes the May issue of BSSS. The computer crashed and would not print anything. Needless to say, I'm late with this column, but also many reports are due on the boss's desk. The problem seems to have been cured and the free flow of words can continue. (All these years you wondered what BSSS stands for. Now you know.)

In the first three months of 1988, there were 596 stations checking into the WSSN. During this time, 126 pieces of traffic were cleared. The nets lasted 1384 minutes. For those who prefer hours and minutes to total minutes, 23 hours and four minutes elapsed while the nets were being run.

About 47% of the checking during the first three months were done by five operators. The top five making the Wisconsin Slow Speed Net Honor Roll for the first quarter are: Paul, N9FVN with 80, Ed (Slim), W9NGP with 64, Adrian, KA9FVX with 53, Jim, W9CXY with 45, and Dwight, AG9G with 39.

Sorry to have Bruce, N9DGL, leaving the ranks as a net manager in the WNA and sorry to see him leave the state. We wish him the best of everything in the job promotion.

If you see a cloud of smoke over the Iola area on June 11, don't call the fire department. The Wisconsin Nets Association summer meeting will be gaveled to order by its Chairman, Bob Dunn, N9GJI. Hopefully, the weather will co-operate for a change and we will be able to meet in Bob's yard. Many tough issues will be resolved at that meeting. With luck, the bandages, splints, and casts will be off in time for the September WNA Picnic at North Wood County Park north of Wisconsin Rapids. Keep your calendar clear for these prestigious events. Better yet, join one or several WNA traffic nets meeting daily on the bands and get in on the ground floor where the cutting edge of ham radio is located.

73, Lee, N9BDL

WISCONSIN INTRASTATE NET-EARLY (WIN/E)

Larry Guthu, WB9ICH, Net Manager

706 West Jennings

New London, WI 54961

Hi Gang! Yes, WIN/E is alive and well, even though the net manager missed the last report for BSSS.

So far, 1988 has been a banner year all the way around. Looking at the first quarter stats and comparing them with last year, we are doing very well. Our check-ins are up 1.14% over the same time last year, and that is reflected by my list of people who check in. Over the last year, we have seen a few new fists find the door, which I think is great! I hope that this trend will continue.

We have also increased in the traffic department too, which means an increase in the amount of time that the net has to be on the air to clear the traffic brought down to us. Let's keep up the great work, fellers.

We are still looking for people to help out by going to 9RN. It's only one night a week, and only 15 to 20 minutes; I'm sure that some of you can spare that much time per week and give those that are taking 3 and 4 days a week a bit of a breather. Come on, guys, how about it? I am also looking for a couple people to NCS on Friday or Saturday night; the time needed is the same, just one night a week for 15 to 20 minutes. If you are interested, let me know.

We are now getting into summer time conditions, so be prepared for the usual QRN and nights of straining your ears to even hear the net. I know how you all feel about that, but we always manage to endure and I appreciate those who stick with us through the rough times as well as the good. Speaking of that, here is the top 10 list for the first quarter of 1988, with a possible 91 days/100%:

1. N9BDL	-	89
2. W9KLN	-	77
3. W9YCV	-	76
4. W9NGP	-	71
5. W9BCE	-	70
6. WB9ICH	-	59
7. W9CXY	-	55
8. K9GDF/N9FVN	-	38
9. W9KU	-	34
10. KA9OBP	-	20

I wish to thank not only those mentioned above, but all who check in, for their support of the net and all the help during the coming months, and hope that the WINning spirit will continue to grow and reach many more of you in 1988. Have fun and we'll be seeing you.

73, Larry, WB9ICH/NM

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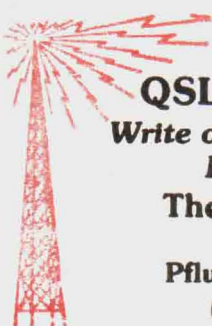


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